

Western Aphid Notes¹ (Homoptera: Aphididae).By GEORGE F. KNOWLTON².

The following report adds to the known distribution of a number of aphids and includes the description of one apparently undescribed species of the genus *Aphis*.

BREVICORYNE SYMPHORICARPI (Thos.). Gallatin Valley, Montana, July 16, 1936 (Knowlton).

CAVARIELLA CAPREAE (Fab.). On *Salix*, Weber Canyon, Utah; on Umbelliferae at Puyallup, Washington, July 28, 1937 (H. C. Bennion).

C. ESSIGI (Gill.). On *Heracleum lanatum* at Spring Hollow, Logan Canyon, Utah, June 19, 1938 (Knowlton-W. P. Nye).

APHIS HERACLELLA Davis. On *Cicuta occidentalis* at Lewiston, Utah, July 13, 1923 (Knowlton).

***Aphis tetradyimia* n. sp.**

Apterous vivipara. Color bluish green; size, 1.3 mm. long and 0.75 mm. wide; antennae 0.81 mm. long, dusky to black; antennal III, 0.18 to 0.2 mm. long, with 0 to 4 sensoria on distal half; IV, 0.09 to 0.1 with 0 to 1 sensorium; V, 0.09 to 0.1; VI, 0.09+0.16 to 0.2 mm. long; rostrum reaching abdomen; rostral IV+V rather thick, 0.13 mm. long; hind tibiae 0.6 to 0.71 mm.; hind tarsi 0.1; cornicles blackish, imbricated, 0.11 to 0.13 mm. long, slightly wider toward base; cauda blackish with 4 to 5 hairs on each side and 3 on dorsal to dorso-lateral surfaces.

Aphis tetradyimia resembles *A. cryptus* P.-K., but differs in having shorter, thicker rostral IV+V, more slender body, and in possessing fewer conspicuous abdominal tubercles. It differs from *A. maidi-radici* Forbes in being smaller in size, having longer antennae, fewer hairs on cauda, usually possessing sensoria on antennal III and IV of aptera, and having a darker bluish-green body color.

Described from wingless specimens collected upon *Tetradyimia canescens* at Fisher's Pass, Tooele County, UTAH, August 16, 1932 (G. F. Knowlton). *Type* in the collection of the writer.

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EPAMEIBAPHIS ATRICORNIS G.-P. On *Artemisia*, usually *tridentata*, in Utah at Beaver Dam, Circleville, Hansel's Mountains and Maple Canyon; in Idaho at Preston and Rexburg, 1935 (C. F. Smith); in Colorado at De Beque, 1935, Cross Mountains and Elk Springs, June 25, 1937 (Knowlton).

E. UTAHENSIS K.-S. On *Artemisia vulgaris* in Utah at Blacksmith Fork Canyon, June 10, 1930; on *A. tridentata* at Providence, August 26, 1925, Raft River Mountains, and Woodruff Mountains (Knowlton); Levan, Salt Lake City, and Vernon (Knowlton-C. F. Smith).

FLABELLOMICROSIPHUM KNOWLTONI Smith. On *Artemisia tridentata*, Bountiful and Roy, Utah, June 4, 1937 (Knowlton-Smith).

F. TRIDENTATAE (Wilson). On *Artemisia tridentata* at Beaver Dam, Hansel's Mountains, Junction Valley, Manti and Portage, in Utah; Palisade, August 24, 1925 and Sunbeam, June 25, 1937, in Colorado (Knowlton).

PSEUDOEPAMEIBAPHIS ESSIGI K.-S. On *Artemisia tridentata* at Kelton and Morgan, Utah (Knowlton).

P. GLAUCA G.-P. On *Artemisia tridentata* in Utah at Bountiful, Butlerville, Peterson, Roy and Strawberry Valley (Knowlton-Smith).

P. TRIDENTATAE (Wilson). On *Artemisia tridentata* at Palisade, Colorado, August 24, 1935 (Knowlton); at Burly, Idaho, July 9, 1931 (D. E. Fox).

P. XENOTRICHUS K.-S. On *Artemisia tridentata* in Brigham Canyon, Utah, August 29, 1936 (Knowlton).

RHOPALOSIPHUM GRABHAMII Ckll. On *Lonicera involucrata*, Eden and Logan, Utah, June 1937 (Knowlton-Smith-F. C. Harmston); Mt. Vernon, Washington, June 8, 1935 (A. J. Hanson).

R. MELLIFERUM (Hottes). In Idaho at Blue Gulch, Castleford, Hollister and Wendell (D. E. Fox).

R. RHOIS Mon. On *Rhus* at Granite, Utah, August 1935 (Knowlton).

R. RUFOMACULATA (Wilson). On *Chrysanthemum* at Logan, Utah, in greenhouse, January 10, 1934 (C. F. Smith).

R. SCIRPIFOLII G.-P. Blue Gulch, Idaho (D. E. Fox).

MINUTICORNIS GRAVIDUS Knlt. On *Juniperus* at Pocatello, Idaho, June 18, 1936 (Knowlton).

TOXOPTERA VIRIDI-RUBRA G.-P. Wendell, Idaho, 1930 (Fox).

AMPHOROPHORA CRATAEGI (Mon.). Hollister, Idaho, 1930 (Fox).

A. GERANII (G.-P.). Buhl, Idaho, October 17, 1930 (Fox).

A. GRINDELIAE (Will.). On *Grindelia squarrosa*, Logan, Utah, July 4, 1935; and Franklin, Idaho (Knowlton).

A. RUBI (Kalt.). On raspberry, Hamilton, Montana (W. Shockley).

BIPERSONA TORTICAUDA (Gill.). On *Cirsium* at Salt Lake City, Utah, June 15, 1937 (Knowlton); and Florence, Montana (H. F. Dietz).

CAPITOPHORUS BITRICHUS K.-S. On *Artemisia tridentata*, Hyrum, Utah, August 23, 1938 (Knowlton).

C. GILLETTEI Theob. On *Polygonum*, Enumclaw, Washington, August 18, 1937 (H. C. Bennion).

C. POTENTILLAE (Walk.). On *Rosa nutkana*, near Forks, Washington, August 27, 1936 (W. W. Baker).

C. OESTLUNDI Knlt. On *Chrysothamnus nauseosus* at Elko, Nevada, June 16, 1934 (Knowlton).

C. PYCNORHISUS K.-S. On *Chrysothamnus viscidiflorus* at Riverdale, Idaho, July 24, 1936 (C. F. Smith).

C. QUADRITRICHUS K.-S. On *Artemisia tridentata* at Sunbeam, Colorado, June 25, 1937 (Knowlton).

C. ZOOMONTANUS K.-S. On *Artemisia vulgaris* at Afton, Wyoming, July 19, 1936 (Knowlton).

MACROSIPHUM CREELI Davis. On alfalfa, Mathews, Ephrata, Washington (A. C. Burrill).

M. EUPHORBIAE (Th.). Castleford and Hollister, Idaho, August 1930 (D. E. Fox).

Honor to an Entomologist.

Science for April 25, 1941, states that Hugh Scott, assistant keeper of entomology, British Museum (Natural History), has been elected a fellow of the Royal Society of London.